STROBOSCOPE

PCE-LES 308



- **8 powerful high-power LEDs**
- **flash frequency adjustable in FPM and Hz**
- **9150 lux at 30 cm / 1000 Hz**
- **digital pulse width modulation**
- **phase shift - 360 ° ... + 360 °**
- **quick adjustment using x2 and ÷2 key**
- **intuitive control keys and clear display**
- **pocket size**
- **external trigger input and output**
- **route measurement**
- **slow motion mode**

Analysing the movement of rotating machines is quick and easy with our Tachometer. The Tachometer is equipped with 8 high-power LEDs, which together generate a light intensity of 17670 lux at 20 cm / 1000 Hz.
The Tachometer allows you to precisely set the flash frequency in both FPM and Hz. The Tachometer is pocket-sized and is also mains-independent thanks to the rechargeable battery.

The Tachometer is operated intuitively using the 10 keys, allowing quick adjustments to be made. The phase shift allows the observation point to be moved variably. The pulse width can be used to set the duration and therefore also the intensity of the flash frequency. The display brightness can be selected in the settings menu and the display can also be switched off after a period of inactivity, which extends the battery life. The Tachometer is supplied with a USB-C charging cable in a service bag.

When input trigger mode is activated, the device synchronises the flash frequency of the LEDs using the input trigger signal provided (or the output trigger signal). A rising or falling edge of the signal to be synchronised can be selected. In output trigger mode, the device generates a PWM signal with the selected frequency, the selected duty cycle and the selected phase shift.

Route measurement mode makes it possible to use a number of predefined settings for frequency, duty cycle and phase shift and to navigate from one point to the next without having to manually set the values at each point.

Specification

Frequency	
Measuring range	60 ... 9999,99 FPM
Resolution	0,01 FPM
Accuracy	±0.003 % of the setting or ±1 LSD
Frequency	
Measuring range	10000 ... 300000 FPM
Resolution	0,1 FPM
Accuracy	±0.003 % of the setting or ±1 LSD
Frequency	
Measuring range	1 ... 5000 Hz
Resolution	0,01 Hz
Accuracy	±0.003 % of the setting or ±1 LSD

General technical data	
Display Typ	LCD-Color Display
Display size	2,8 Inch
Storage medium	Internal memory
Operating time	4,5 h
Operating time Additional information	at flash frequency 100 Hz, 1 %, display brightness 70 %
Automatic shutdown adjustable	2 ... 10 min.
Luminous intensity	17670 lux @ 20 cm @ 1000 Hz 1% 9150 lux @ 30 cm @ 1000 Hz 1% 4100 lux @ 50 cm @ 1000 Hz 1%
Light color	6200 K
Phase shift	-360 ... 360 °
Pulse width	0.01 ... 1 % of pulse duration Resolution: 0.01 % 0.01 ° ... 3.60 ° of 360 ° Resolution: 0.01 °
Trigger input	Input: Allowable input: NPN signal, 24 V DC, Sensor supply: 24 V / 100 mA for external sensors Output: Open drain output, up to 24 V, 50 mA
Route measurement	Up to 15 routes, 10 machines per route, 5 points per machine
Menu language	Turkish, English (US), Polish, Spanish, German, Chinese, Russian, French, Italian, Dutch
Protection class (device)	IP52
Power supply	5 V DC, 2 A
Battery/battery	1 x 7,4 V DST604665 , Lithium-ion battery
Battery capacity	2200 mAh
Performance	16,28 Wh
Operating conditions	-20 ... 60 °C , 35 ... 85 %RH
Storage conditions	-20 ... 60 °C , 35 ... 85 %RH
Dimensions (L x W x H)	165 x 90 x 35 mm
Weight	284 g